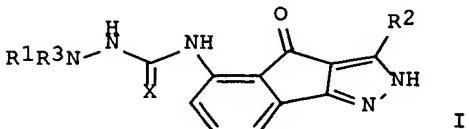


App's

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:449673 CAPLUS
 DN 137:20389
 TI Preparation of indenopyrazolone semicarbazides as cyclin dependent Kinase inhibitors.
 IN Carini, David J.
 PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 107 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046182	A1	20020613	WO 2001-US46904	20011207
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002028849	A5	20020618	AU 2002-28849	20011207
	US 2002091127	A1	20020711	US 2001-10979	20011207
	EP 1351956	A1	20031015	EP 2001-989969	20011207
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	US 2000-254116P	P	20001208		
	WO 2001-US46904	W	20011207		
OS	MARPAT	137:20389			
GI					



AB Title compds. [I; X = O, S; R1 = (substituted) carbocyclyl, heterocyclyl; R2 = H, (substituted) alkyl, alkenyl alkynyl, carbocyclyl, heterocyclyl; R3 = H, alkyl, cycloalkyl, cycloalkylalkyl; with provisos], were prep'd. as cdk inhibitors (no data). Thus, 3-(4-piperazinophenyl)-5-[[N-methyl-N-(2-pyridinyl)amino]carbamoylamino]inden[1,2-c]pyrazol-4-1 was prep'd. in several steps starting from 4-piperazinoacetophenone.

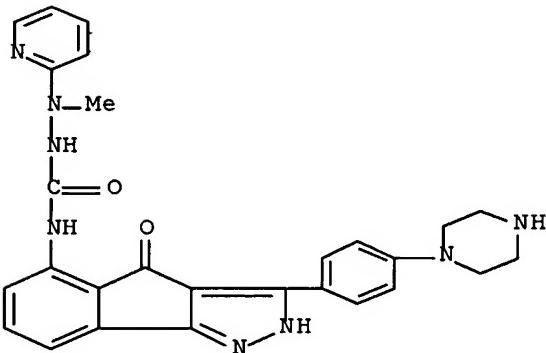
IT 435337-10-3P 435337-11-4P 435337-13-6P
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 435337-26-1P 435337-28-3P 435337-30-7P
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 435337-43-2P 435337-45-4P 435337-47-6P
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 435337-55-6P 435337-57-8P 435337-59-0P
 435337-61-4P 435337-62-5P 435337-64-7P

435337-66-9P 435337-68-1P 435339-57-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of indenopyrazolone semicarbazides as cyclin dependent kinase inhibitors)

RN 435337-10-3 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indenol[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-pyridinyl)-(9CI) (CA INDEX NAME)



544 / 359
360
364
371
540/575

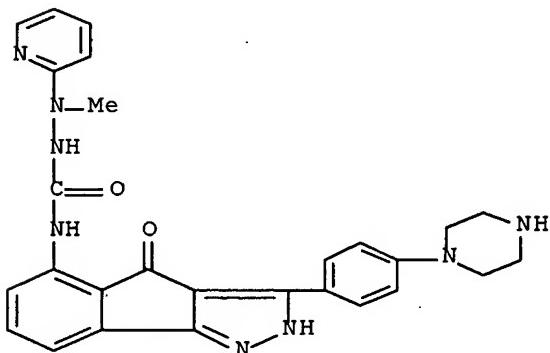
RN 435337-11-4 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indenol[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-pyridinyl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 435337-10-3

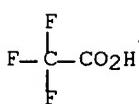
CMF C27 H26 N8 O2



CM 2

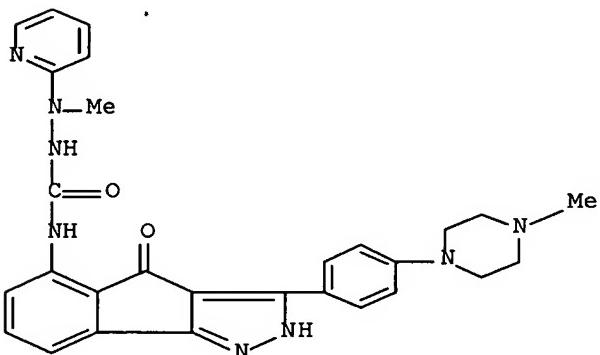
CRN 76-05-1

CMF C2 H F3 O2



RN 435337-13-6 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-3-[4-(4-methyl-1-piperazinyl)phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



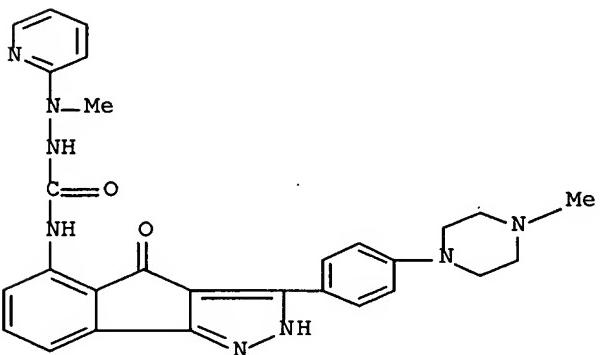
RN 435337-14-7 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-3-[4-(4-methyl-1-piperazinyl)phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-pyridinyl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 435337-13-6

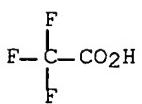
CMF C28 H28 N8 O2



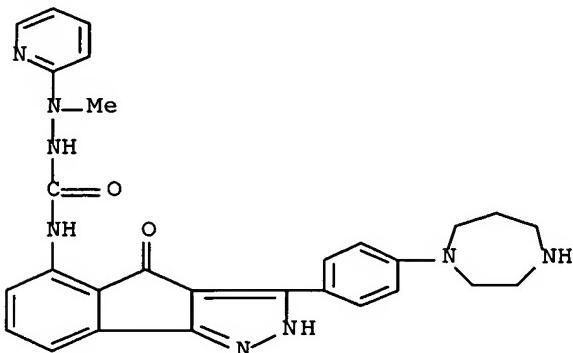
CM 2

CRN 76-05-1

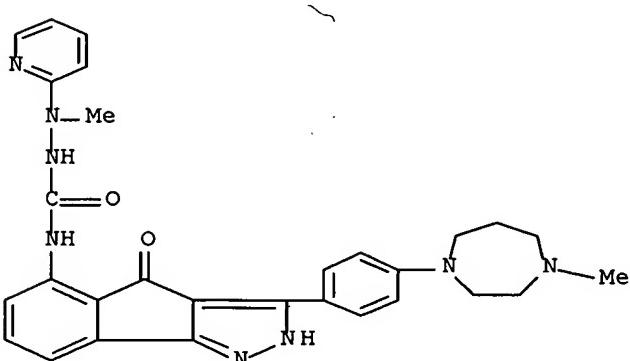
CMF C2 H F3 O2



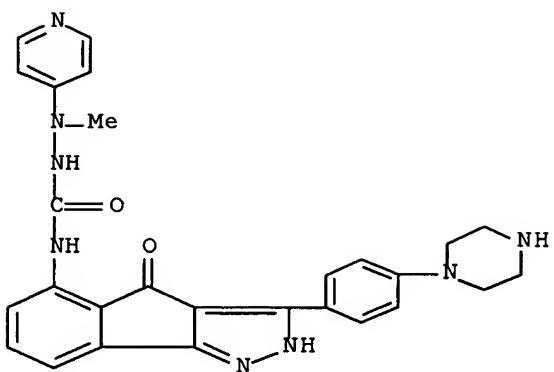
RN 435337-16-9 CAPLUS
CN Hydrazinecarboxamide, N-[3-[4-(hexahydro-1H-1,4-diazepin-1-yl)phenyl]-
2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-pyridinyl)- (9CI)
(CA INDEX NAME)



RN 435337-18-1 CAPLUS
CN Hydrazinecarboxamide, N-[3-[4-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)

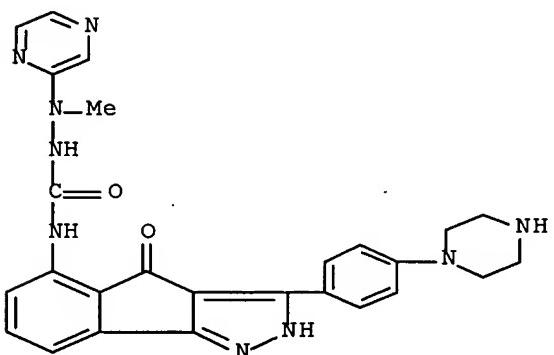


RN 435337-20-5 CAPLUS
CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



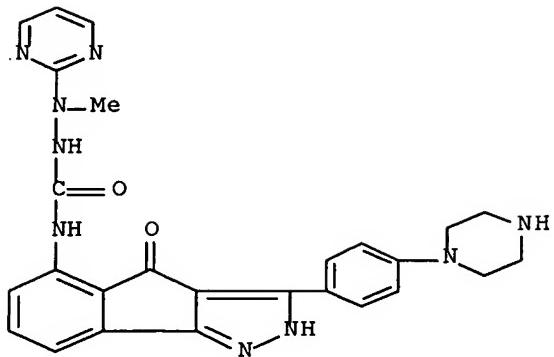
RN 435337-22-7 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-pyrazinyl-(9CI)
(CA INDEX NAME)



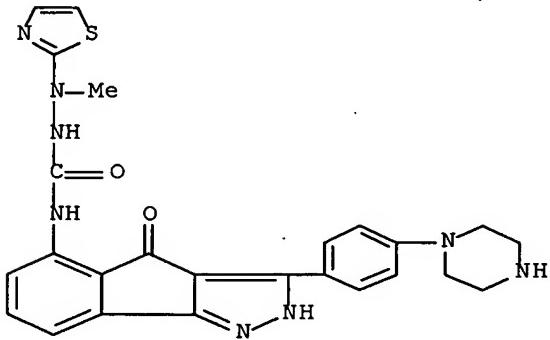
RN 435337-24-9 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-pyrimidinyl)-
(9CI) (CA INDEX NAME)



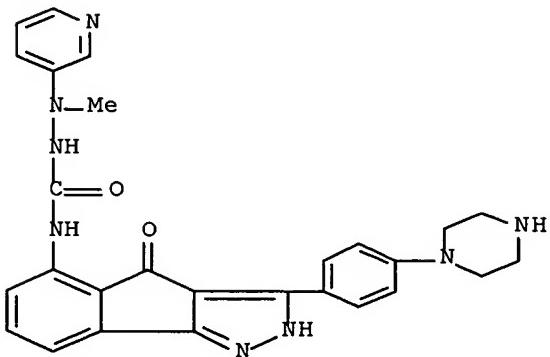
RN 435337-26-1 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-thiazolyl)-(9CI) (CA INDEX NAME)

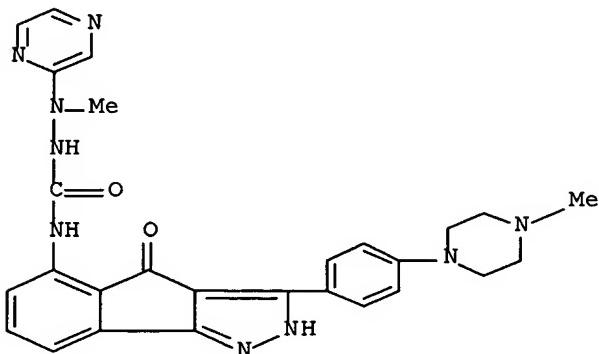


RN 435337-28-3 CAPLUS

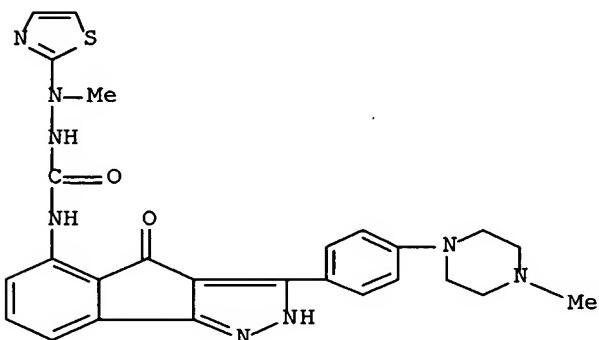
CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(3-pyridinyl)-(9CI) (CA INDEX NAME)



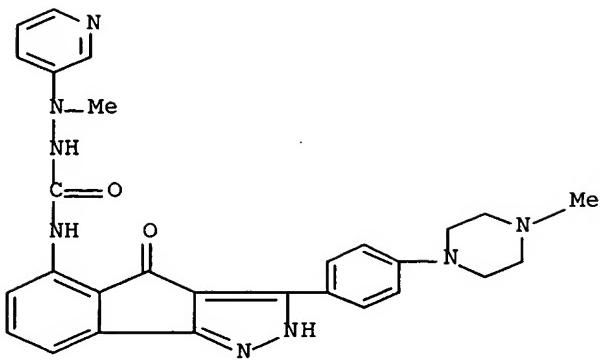
RN 435337-30-7 CAPLUS
CN Hydrazinecarboxamide, N-[2,4-dihydro-3-[4-(4-methyl-1-piperazinyl)phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-pyrazinyl- (9CI) (CA INDEX NAME)



RN 435337-32-9 CAPLUS
CN Hydrazinecarboxamide, N-[2,4-dihydro-3-[4-(4-methyl-1-piperazinyl)phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(2-thiazolyl)- (9CI) (CA INDEX NAME)

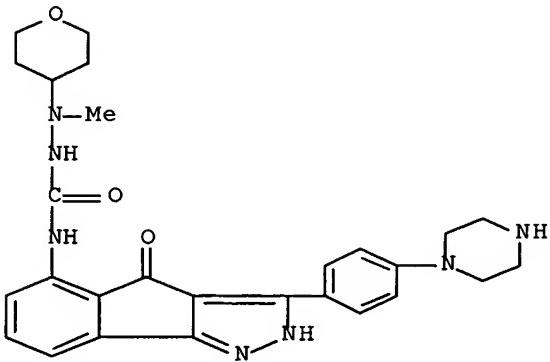


RN 435337-34-1 CAPLUS
CN Hydrazinecarboxamide, N-[2,4-dihydro-3-[4-(4-methyl-1-piperazinyl)phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 435337-36-3 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



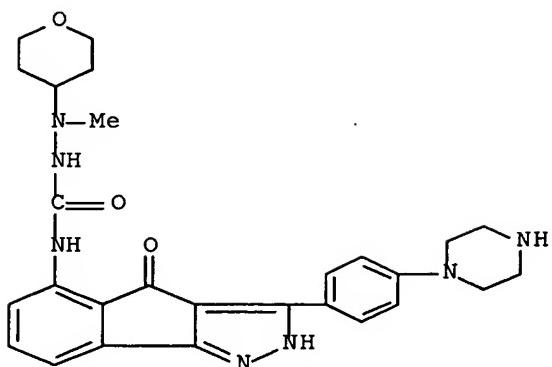
RN 435337-37-4 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

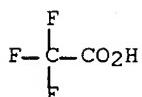
CRN 435337-36-3

CMF C27 H31 N7 O3

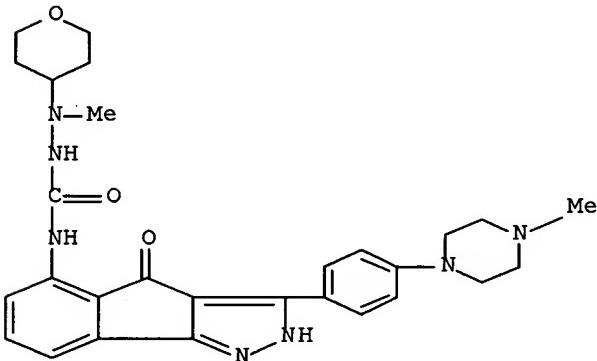


CM 2

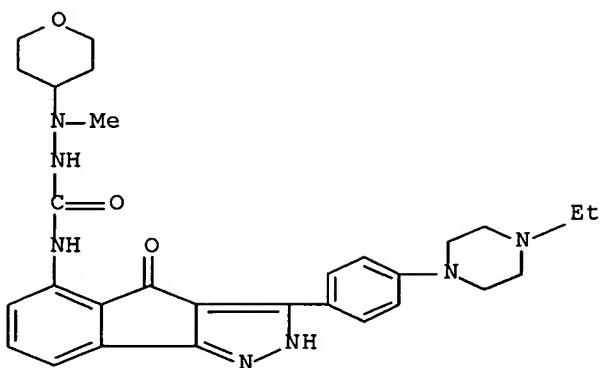
CRN 76-05-1
CMF C2 H F3 O2



RN 435337-39-6 CAPLUS
CN Hydrazinecarboxamide, N-[2,4-dihydro-3-[4-(4-methyl-1-piperazinyl)phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)-(9CI) (CA INDEX NAME)

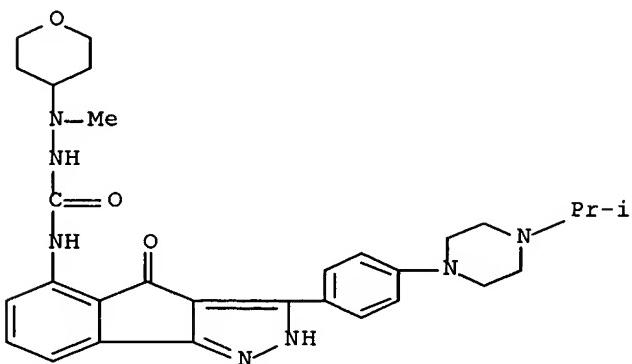


RN 435337-41-0 CAPLUS
CN Hydrazinecarboxamide, N-[3-[4-(4-ethyl-1-piperazinyl)phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)-(9CI) (CA INDEX NAME)



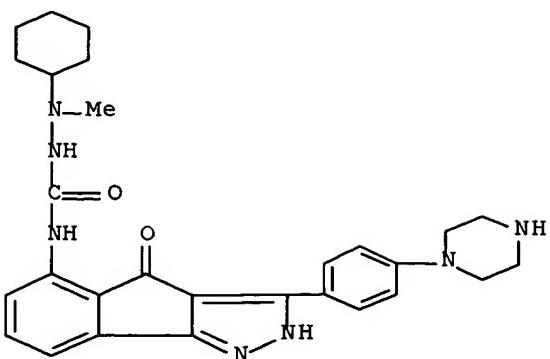
RN 435337-43-2 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-3-[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



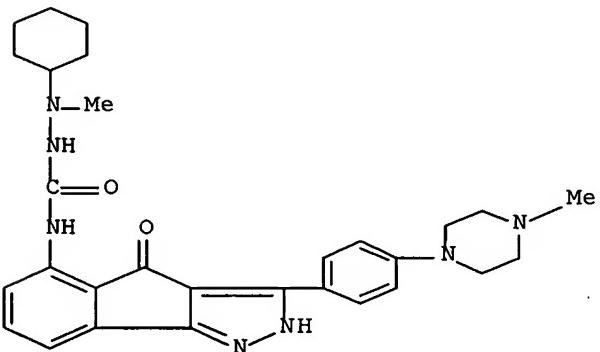
RN 435337-45-4 CAPLUS

CN Hydrazinecarboxamide, 2-cyclohexyl-N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl- (9CI) (CA INDEX NAME)



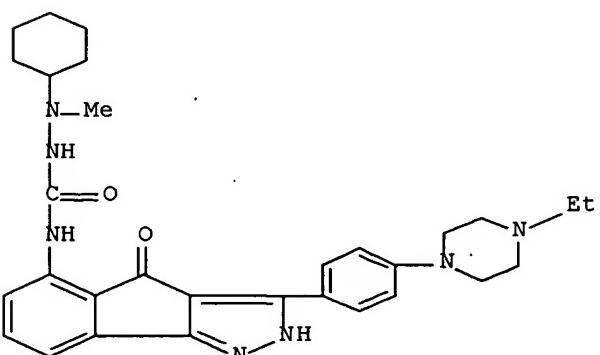
RN 435337-47-6 CAPLUS

CN Hydrazinecarboxamide, 2-cyclohexyl-N-[2,4-dihydro-3-[4-(4-methyl-1-piperazinyl)phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl- (9CI) (CA INDEX NAME)



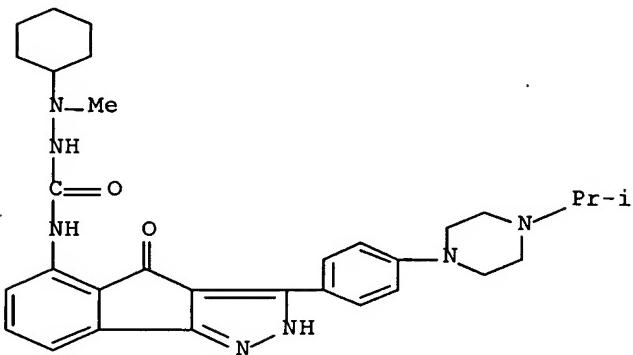
RN 435337-49-8 CAPLUS

CN Hydrazinecarboxamide, 2-cyclohexyl-N-[3-[4-(4-ethyl-1-piperazinyl)phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl- (9CI) (CA INDEX NAME)



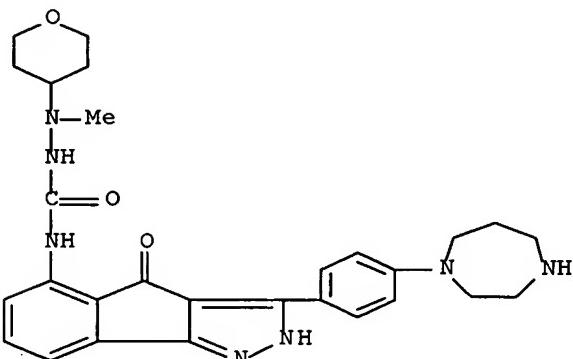
RN 435337-51-2 CAPLUS

CN Hydrazinecarboxamide, 2-cyclohexyl-N-[2,4-dihydro-3-[4-[4-(1-methylethyl)-1-piperazinyl]phenyl]-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl- (9CI)
(CA INDEX NAME)



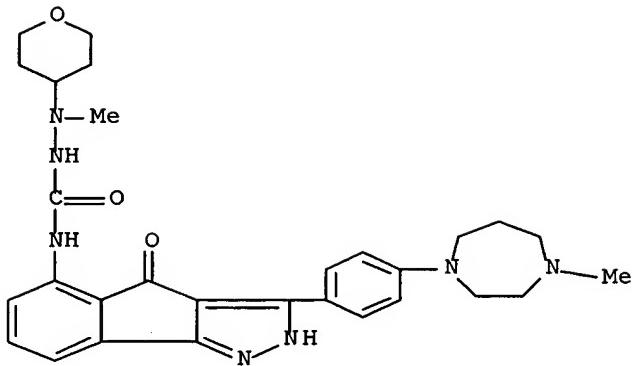
RN 435337-53-4 CAPLUS

CN Hydrazinecarboxamide, N-[3-[4-(hexahydro-1H-1,4-diazepin-1-yl)phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



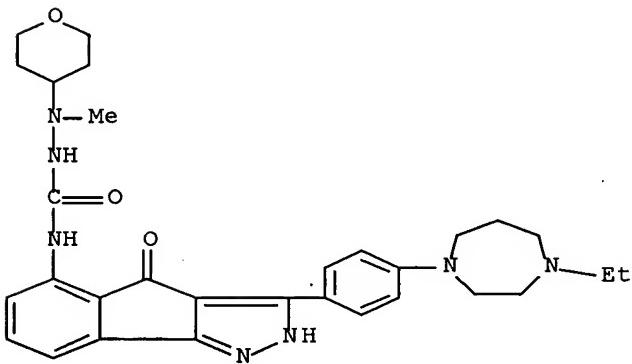
RN 435337-55-6 CAPLUS

CN Hydrazinecarboxamide, N-[3-[4-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



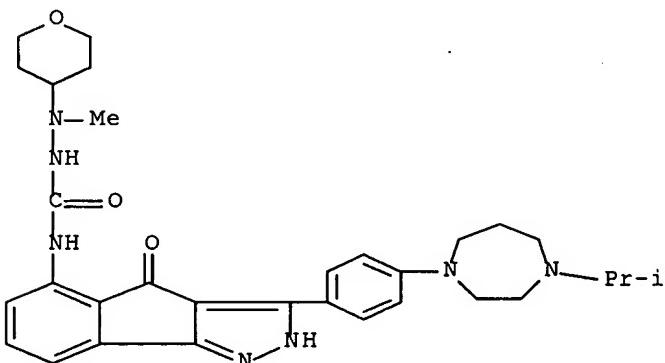
RN 435337-57-8 CAPLUS

CN Hydrazinecarboxamide, N-[3-[4-(4-ethylhexahydro-1H-1,4-diazepin-1-yl)phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



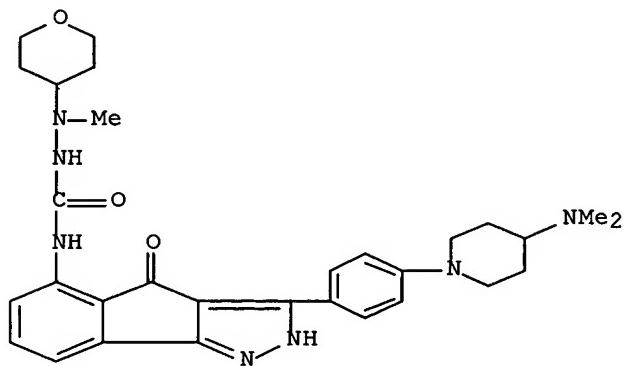
RN 435337-59-0 CAPLUS

CN Hydrazinecarboxamide, N-[3-[4-[hexahydro-4-(1-methylethyl)-1H-1,4-diazepin-1-yl]phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



RN 435337-61-4 CAPLUS

CN Hydrazinecarboxamide, N-[3-[4-[4-(dimethylamino)-1-piperidinyl]phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



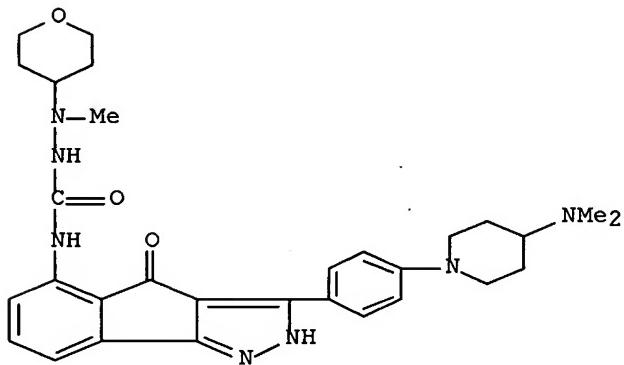
RN 435337-62-5 CAPLUS

CN Hydrazinecarboxamide, N-[3-[4-[4-(dimethylamino)-1-piperidinyl]phenyl]-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)-, acetate (9CI) (CA INDEX NAME)

CM 1

CRN 435337-61-4

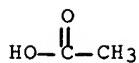
CMF C30 H37 N7 O3



CM 2

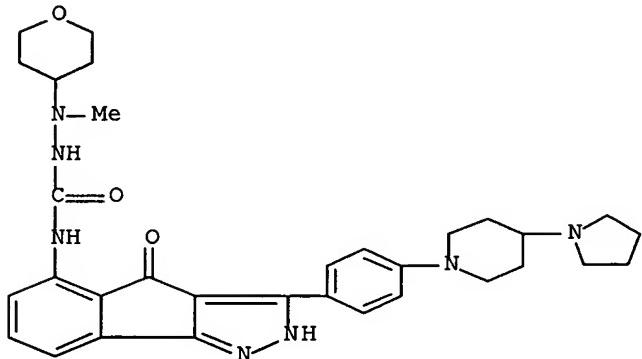
CRN 64-19-7

CMF C2 H4 O2



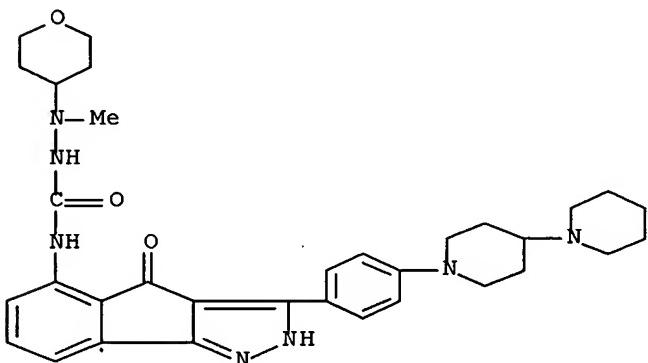
RN 435337-64-7 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-[4-(1-pyrrolidinyl)-1-piperidinyl]phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



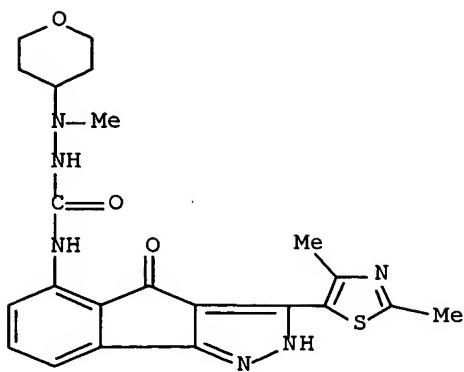
RN 435337-66-9 CAPLUS

CN Hydrazinecarboxamide, N-[3-(4-[1,4'-bipiperidin]-1'-ylphenyl)-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



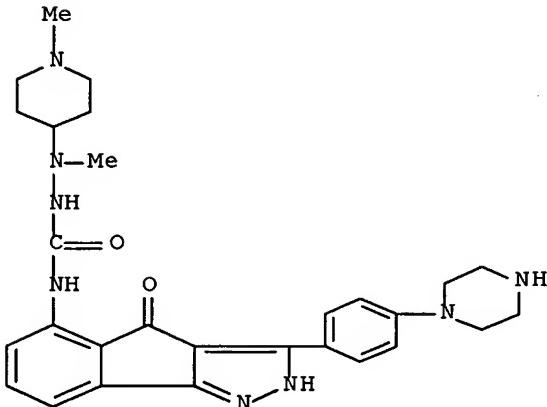
RN 435337-68-1 CAPLUS

CN Hydrazinecarboxamide, N-[3-(2,4-dimethyl-5-thiazolyl)-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)



RN 435339-57-4 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(1-piperazinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



IT 435337-70-5P 435337-72-7P 435337-80-7P

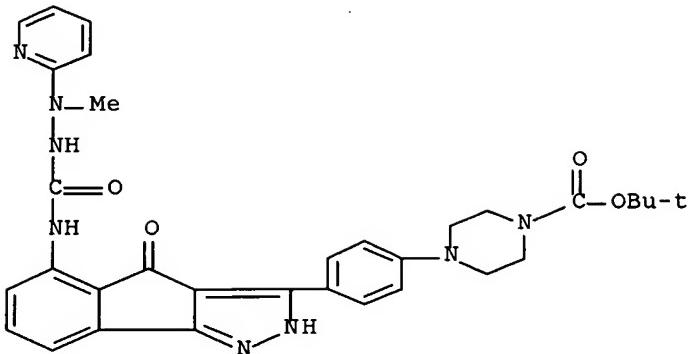
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT

(Reactant or reagent)

(prepn. of indenopyrazolone semicarbazides as cyclin dependent kinase inhibitors)

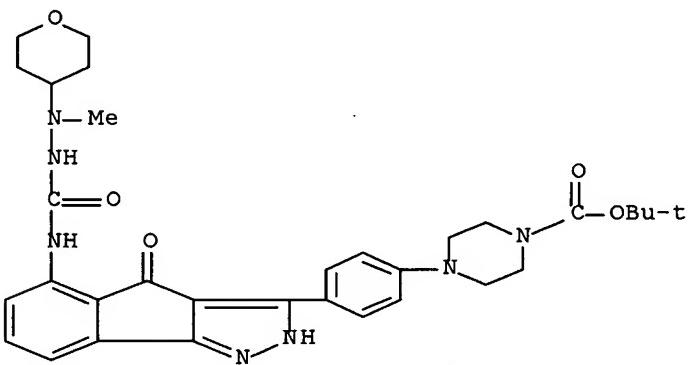
RN 435337-70-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[2,4-dihydro-5-[[2-methyl-2-(2-pyridinyl)hydrazino]carbonyl]amino]-4-oxoindeno[1,2-c]pyrazol-3-yl]phenyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



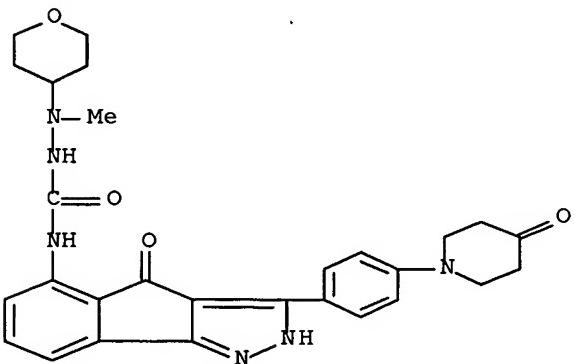
RN 435337-72-7 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[2,4-dihydro-5-[[2-methyl-2-(tetrahydro-2H-pyran-4-yl)hydrazino]carbonyl]amino]-4-oxoindeno[1,2-c]pyrazol-3-yl]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 435337-80-7 CAPLUS

CN Hydrazinecarboxamide, N-[2,4-dihydro-4-oxo-3-[4-(4-oxo-1-piperidinyl)phenyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

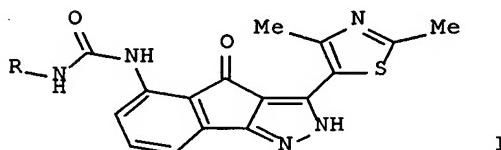


RE.CNT 3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:428902 CAPLUS
 DN 137:20374
 TI Preparation of 3-(2,4-dimethylthiazol-5-yl)indeno[1,2-c]pyrazol-4-ones as potent inhibitors of cyclin dependent kinases .
 IN Yue, Eddy W.
 PA Bristol-Myers Squibb Pharma Company, USA
 SO PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044174	A2	20020606	WO 2001-US45227	20011130
	WO 2002044174	A3	20030123		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002028692	A5	20020611	AU 2002-28692	20011130
	US 2002107274	A1	20020808	US 2001-820	20011130
PRAI	US 2000-251213P	P	20001201		
	WO 2001-US45227	W	20011130		
OS	MARPAT	137:20374			
GI					

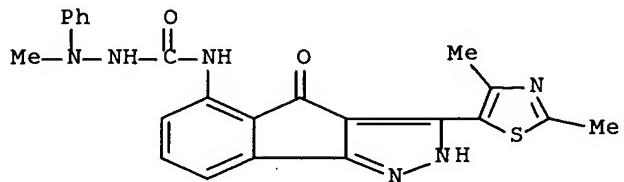


AB The title compds. [I; R = H, NR₁R₂, NR₁COR₃, etc.; R₁ = H, halo, CN, etc.; R₂ = H, alkyl, Ph, CH₂Ph; or NR₁R₂ = (un)substituted 4-8 membered heterocyclyl or heterocyclenyl contg. an addnl. O-1 N, S, or O atom; R₃ = H, halo, CN, etc.] and their salts which are potent inhibitors of cyclin dependent kinases, were prep'd. E.g., a multi-step synthesis of I.TFA [R = H] was given. This invention also provides a novel method of treating cancer or other proliferative diseases by administering a therapeutically effective amt. of one of compds. I or a pharmaceutically acceptable salt thereof. Alternatively, one can treat cancer or other proliferative diseases by administering a therapeutically effective combination of one of the compds. I and one or more other known anti-cancer or anti-proliferative agents.

IT 433736-40-4P 433736-42-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 3-(2,4-dimethylthiazol-5-yl)indeno[1,2-c]pyrazol-4-ones as potent inhibitors of cyclin dependent kinases)

RN 433736-40-4 CAPLUS
 CN Hydrazinecarboxamide, N-[3-(2,4-dimethyl-5-thiazolyl)-2,4-dihydro-4-

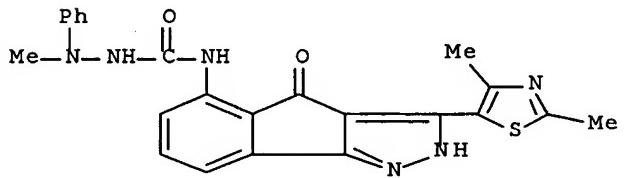
(CA
INDEX NAME)



●x HCl

RN 433736-42-6 CAPLUS

CN Hydrazinecarboxamide, N-[3-(2,4-dimethyl-5-thiazolyl)-2,4-dihydro-4-oxoindeno[1,2-c]pyrazol-5-yl]-2-methyl- (9CI) (CA INDEX NAME)



IT 364736-10-7P

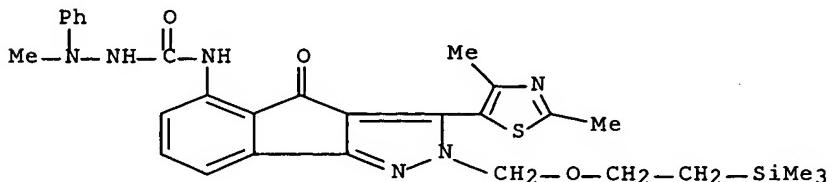
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT

(Reactant or reagent)

(prepn. of 3-(2,4-dimethylthiazol-5-yl)indeno[1,2-c]pyrazol-4-ones as potent inhibitors of cyclin dependent kinases)

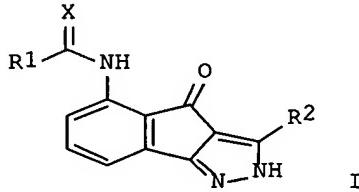
RN 364736-10-7 CAPLUS

CN Hydrazinecarboxamide, N-[3-(2,4-dimethyl-5-thiazolyl)-2,4-dihydro-4-oxo-2-[[2-(trimethylsilyl)ethoxy]methyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-phenyl- (9CI) (CA INDEX NAME)



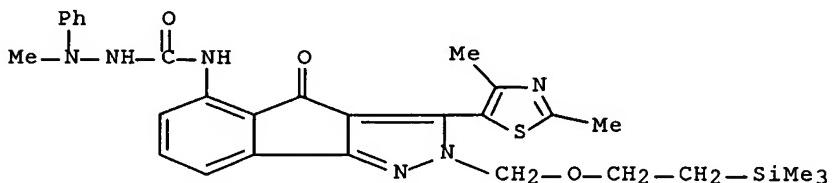
L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2001:731369 CAPLUS
 DN 135:288778
 TI Preparation of indeno[1,2-c]pyrazol-4-ones as inhibitors of cyclin dependent kinases
 IN Nugiel, David A.; Carini, David J.; Dimeo, Susan V.; Yue, Eddy W.
 PA USA
 SO U.S. Pat. Appl. Publ., 104 pp., Cont.-in-part of U.S. Ser. No. 639,618.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001027195 US 6407103 US 6413957 AU 2001012168	A1 B2 B1 A5	20011004 20020618 20020702 20020506	US 2000-731304 US 2000-639618 AU 2001-12168	20001206 20000815 20001020
PRAI	US 1998-82476P US 1999-295078 US 2000-639618 WO 2000-US28952	P B1 A2 A	19980421 19990420 20000815 20001020		
OS	MARPAT 135:288778				
GI					



AB The present invention relates to the synthesis of a new class of indeno[1,2-c]pyrazol-4-ones of formula [X = O, S, (un)substituted NH; R1 = H, (un)substituted C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl, NH2, C3-10 membered carbocyclyl, 3-10 membered heterocycle contg. 1-4 heteroatoms selected from O, N, and S; R2 = H, (un)substituted C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl, (CF2)_mCF3, C3-10 membered carbocyclyl, 3-10 membered heterocycle contg. 1-4 heteroatoms selected from O, N, and S; wherein m = 0, 1-4]. These compds. are potent inhibitors of the class of enzymes known as cyclin dependent kinases, which relate to the catalytic subunits cdk1-9 and their regulatory subunits known as cyclins A-H. This invention also provides a novel method of treating cancer or other proliferative diseases by administering a therapeutically effective amt. of one of these compds. or a pharmaceutically acceptable salt form thereof. Alternatively, cancer or other proliferative diseases can be treated by administering a therapeutically effective combination of one of the compds. of the present invention and one or more other known anti-cancer or anti-proliferative agents (no data). Thus, hydrogenation of di-Me 3-nitrophthalate over 5% Pd-C in methanol in a Parr shaker at 50 psi for 2 h followed by acetylation with Ac₂O in pyridine at 25 degree. for 2 h gave 79% di-Me 3-acetamidophthalate which was treated with NaH in

min DMF and cyclocondensed with 4-methoxyacetophenone at 90.degree. for 20
 to give 30% 2-(4-methoxybenzoyl)-4-acetamidoindane-2,3-dione.
 Cyclocondensation of the latter triketone with hydrazine hydrate in the
 presence of p-TsOH in ethanol under reflux for 2 h gave I (R1 = Me, X =
 O,
 R2 = 4-methoxyphenyl).
 IT 364736-10-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT
 (Reactant or reagent)
 (prepn. of indeno[c]pyrazolones as inhibitors of cyclin dependent
 kinases)
 RN 364736-10-7 CAPLUS
 CN Hydrazinecarboxamide, N-[3-(2,4-dimethyl-5-thiazolyl)-2,4-dihydro-4-oxo-
 2-
 [[2-(trimethylsilyl)ethoxy]methyl]indeno[1,2-c]pyrazol-5-yl]-2-methyl-2-
 phenyl- (9CI) (CA INDEX NAME)

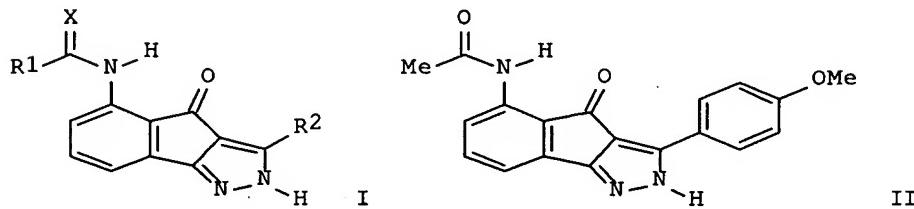


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L9 ANSWER 1 OF 4 MARPAT COPYRIGHT 2003 ACS on STN
 AN 138:304281 MARPAT
 TI Preparation of 5-substituted indeno[1,2-c]pyrazol-4-ones as cyclin
 dependent kinase inhibitors for treating cancer and other proliferative
 diseases
 IN Nugiel, David; Carini, David; Dimeo, Susan; Vidwans, Anup; Yue, Eddy
 PA USA
 SO U.S. Pat. Appl. Publ., 53 pp., Cont.-in-part of U.S. 6,291,504.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003073686	A1	20030417	US 2001-906963	20010716
	US 6593356	B2	20030715		
	US 6291504	B1	20010918	US 2000-692023	20001019
	WO 2003007883	A2	20030130	WO 2002-US22663	20020716
	WO 2003007883	A3	20030522		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
PRAI	US 1999-160713P	19991020			
	US 2000-692023	20001019			
	US 2001-906963	20010716			

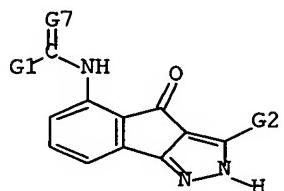
GI



AB The title compds. [I; X = O, S, NR (wherein R = H, alkyl, (un)substituted NH₂); R1 = H, (un)substituted alkyl, alkenyl, etc.; R2 = H, (un)substituted alkyl, alkenyl, etc.] that are potent inhibitors of the class of enzymes known as cyclin dependent kinases, which relate to the catalytic subunits cdk1-7 and their regulatory subunits known as cyclines

diseases (no data), were prep'd. E.g., a 3-step synthesis of indeno[1,2-c]pyrazol-4-one II, starting with di-Me 3-nitrophthalate, was given.

MSTR 1



$$G_1 = 459$$

H 59-G 29-G 30

G7 = 0
G29 = 76

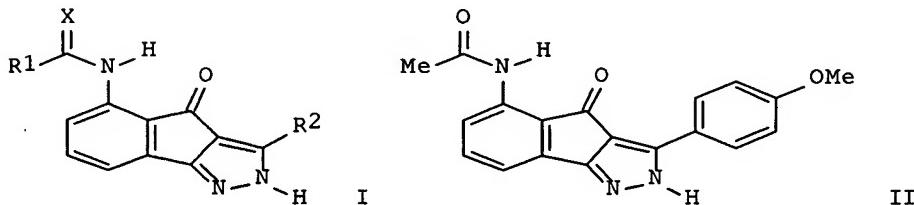


G30 = Ph (SO)
MPL: claim 1
NTE: also incorporates broader disclosure
NTE: or pharmaceutically acceptable salts
NTE: substitution is restricted
NTE: additional oxo formation also disclosed
STE: or stereoisomer

L9 ANSWER 2 OF 4 MARPAT COPYRIGHT 2003 ACS on STN
 AN 138:122642 MARPAT
 TI Preparation of 5-substituted indeno[1,2-c]pyrazol-4-ones as anti-cancer and anti-proliferative agents
 IN Nugiel, David; Carini, David; Dimeo, Susan; Vidwans, Anup; Yue, Eddy
 PA Bristol-Myers Squibb Pharma Company, USA
 SO PCT Int. Appl., 184 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

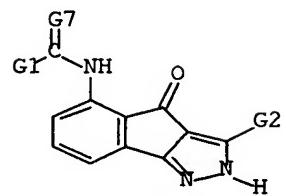
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003007883	A2	20030130	WO 2002-US22663	20020716
	WO 2003007883	A3	20030522		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003073686	A1	20030417	US 2001-906963	20010716
	US 6593356	B2	20030715		
PRAI	US 2001-906963		20010716		
	US 1999-160713P		19991020		
	US 2000-692023		20001019		

GI



AB The title compds. [I; X = O, S, NR (wherein R = H, alkyl, (un)substituted NH₂); R1 = H, (un)substituted alkyl, alkenyl, etc.; R2 = H, (un)substituted alkyl, alkenyl, etc.] that are potent inhibitors of the class of enzymes known as cyclin dependent kinases, which relate to the catalytic subunits cdk1-7 and their regulatory subunits known as cyclines
 A-G and therefore are useful in treating cancer or other proliferative diseases (no data), were prep'd. E.g., a 3-step synthesis of indeno[1,2-c]pyrazol-4-one II, starting with di-Me 3-nitrophthalate, was given.

MSTR 1



G1 = 459

~~H N₉ — G29 — G30~~

G7 = O
G29 = 76

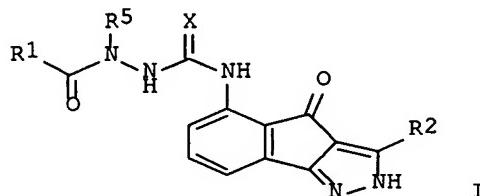
N
|
76
G3

G30 = Ph (SO)
MPL: claim 1
NTE: or pharmaceutically acceptable salts
NTE: substitution is restricted
NTE: additional oxo formation also disclosed
STE: or stereoisomer

L9 ANSWER 3 OF 4 MARPAT COPYRIGHT 2003 ACS on STN
 AN 135:242226 MARPAT
 TI Preparation of a new acylsemicarbazide-containing indeno[1,2-c]pyrazol-
 4-ones as cyclin dependent kinase (cdk) inhibitors
 IN Nugiel, David A.; Carini, David J.; Di Meo, Susan V.; Vidwans, Anup P.;
 Yue, Eddy W.
 PA DuPont Pharmaceuticals Company, USA
 SO U.S., 26 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

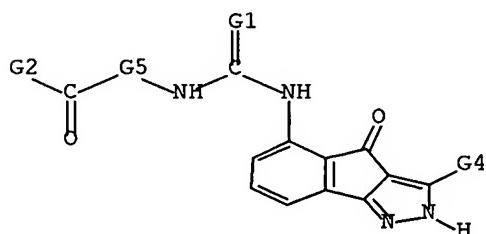
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6291504	B1	20010918	US 2000-692023	20001019
	US 2003073686	A1	20030417	US 2001-906963	20010716
	US 6593356	B2	20030715		
PRAI	US 1999-160713P	19991020			
	US 2000-692023	20001019			

GI



AB The title compds. [I; X = O, S; R1 = NR3R3a, CF3, alkyl, etc.; R2 = H, alkyl, alkenyl, etc.; R3, R3a = H, alkyl, Ph, CH2Ph; R5 = H, alkyl, Ph, etc.] that are potent inhibitors of the class of enzymes known as cyclin dependent kinases which relate to the catalytic subunits cdk1-9 and their regulatory subunits known as cyclins A-H (no biol. data given), and are useful in treating cancer or other proliferative diseases, were prep'd. E.g., a 3-step synthesis of I [X = O; R1 = 3,5-(MeO)2C6H3; R2 = 4-MeOC6H4; R5 = H] was given. Alternatively, one can treat cancer or other proliferative diseases by administering a therapeutically effective combination of one of the compds. I and one or more other known anti-cancer or anti-proliferative agents.

MSTR 1



G1 = O
 G5 = 29
 G6 = Ph

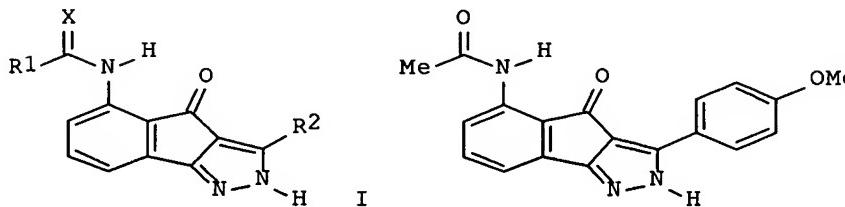
MPL: claim 1
NTE: or pharmaceutically acceptable salts, prodrugs, or N-oxides
NTE: substitution is restricted
NTE: additional oxo group substitution and ring formation also claimed
STE: or stereoisomers

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 4 MARPAT COPYRIGHT 2003 ACS on STN
AN 131:299444 MARPAT
TI Preparation of 5-aminoindeno[1,2-c]pyrazol-4-ones as anti-cancer and
anti-proliferative agents
IN Nugiel, David A.; Carini, David J.; Yue, Eddy W.; Dimeo, Susan V.
PA Du Pont Pharmaceuticals Company, USA
SO PCT Int. Appl., 184 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9954308	A1	19991028	WO 1999-US8616	19990420
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TM	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2322204	AA	19991028	CA 1999-2322204	19990420
	AU 9936548	A1	19991108	AU 1999-36548	19990420
	EP 1071668	A1	20010131	EP 1999-918695	19990420
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
	BR 9909597	A	20011002	BR 1999-9597	19990420
	JP 2002512230	T2	20020423	JP 2000-544647	19990420
	NZ 507567	A	20030829	NZ 1999-507567	19990420
	ZA 2000004445	A	20010828	ZA 2000-4445	20000828
	WO 2002034721	A1	20020502	WO 2000-US28952	20001020
	W: AU, BR, CA, CN, CZ, EE, HU, IL, IN, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	AU 2001012168	A5	20020506	AU 2001-12168	20001020
	US 1998-82476P		19980421		
	WO 1999-US8616		19990420		
	WO 2000-US28952		20001020		

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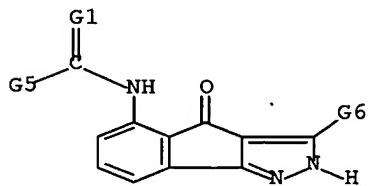


AB The title compds. [I; X = O, S, NR (wherein R = H, alkyl, (un)substituted NH₂); R₁ = H, (un)substituted alkyl, alkenyl, etc.; R₂ = H,

(un)substituted alkyl, alkenyl, etc.] that are potent inhibitors of the class of enzymes known as cyclin dependent kinases, which relate to the catalytic subunits cdk1-7 and their regulatory subunits known as cyclines

A-G and therefore are useful in treating cancer or other proliferative diseases (no data), were prep'd. E.g., a 3-step synthesis of indeno[1,2-c]pyrazol-4-one II, starting with di-Me 3-nitrophthalate, was given. Alternatively, one can treat cancer or other proliferative diseases by administering a therapeutically effective combination of one of the compds. I and one or more other known anti-cancer or anti-proliferative agents.

MSTR 1



G1 = O
G5 = 26



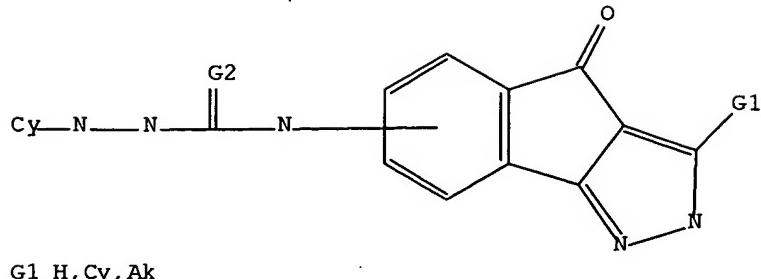
G8 = 32



G10 = Ph
MPL: claim 1
NTE: oxygen alternative in G10 is free radical
NTE: additional substitution and ring formation also claimed
STE: or stereoisomers or pharmaceutically acceptable salts

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l1; d his; log y
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

(FILE 'HOME' ENTERED AT 10:44:05 ON 14 NOV 2003)

FILE 'REGISTRY' ENTERED AT 10:44:14 ON 14 NOV 2003
L1 STRUCTURE uploaded
L2 2 S L1
L3 39 S L1 FUL

FILE 'CAPLUS' ENTERED AT 10:44:39 ON 14 NOV 2003
L4 3 S L3

FILE 'BEILSTEIN' ENTERED AT 10:45:10 ON 14 NOV 2003
L5 0 S L1
L6 0 S L1 FUL

FILE 'MARPAT' ENTERED AT 10:45:26 ON 14 NOV 2003
L7 0 S L1
L8 6 S L1 FUL
L9 4 S L8 NOT L4

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	121.47	283.92
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.48	-4.43

STN INTERNATIONAL LOGOFF AT 10:46:05 ON 14 NOV 2003